

# THE ANNALS

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XLVI.—*Descriptions of some new Species of Noctuidæ from Peru.* By HERBERT DRUCE, F.L.S. &c.

ALL the species now described were collected by Mr. W. F. Rosenberg's late collector Mr. G. Ockenden.

Fam. Noctuidæ.

Subfam. HADENINÆ.

*Miselia albistriga*, sp. n.

Head and thorax greenish brown; antennæ and palpi pale brown; abdomen dark brown above, paler on the underside; a tuft of greenish hairs at the base of the abdomen and two tufts of reddish-brown hair above the anus. Primaries dark brown, crossed from the costal to the inner margin by two curved greenish lines; a white spot at the end of the cell, the apex and outer margin mostly greenish: secondaries very dark brown, the fringe paler. Underside pale brown.

Expanse  $1\frac{1}{10}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Miselia albistellata*, sp. n.

*Male.*—Head, tegulæ, thorax, and abdomen blackish brown, the underside of the abdomen and legs pale brown; antennæ and palpi brown. Primaries pale fawn-colour,

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19

darkest about the middle, the base of the wing white, the costal margin spotted with white; a small spot in the cell and a large one at the end of the cell, both white; several white dots below the cell and along the inner margin; a submarginal row of white dots extends from the apex to the anal angle; the fringe pale fawn-colour: secondaries creamy white, with a black spot at the end of the cell; the fringe very pale fawn-colour: the underside much paler than the upperside, darkest along the costal margin of the primaries. —*Female* similar to the male, but the primaries much darker and redder brown, with all the white spots much smaller and more indistinct; the secondaries dark blackish brown.

Expanse, ♂ 1, ♀  $\frac{9}{10}$  inch.

*Hab.* S.E. Peru, Oconeque, Carabaya, 7000 feet; Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Miselia chrysochlora*, sp. n.

Head, collar, tegulæ, and thorax pale yellowish green mixed with dark brown hairs; abdomen dark brown. Primaries pale yellowish green, the costal margin spotted with dark brown from the base to the apex; the central part of the wing and the inner margin thickly covered with dark brown spots of various sizes; a curved, narrow, zigzag line crosses the wing beyond the middle; a submarginal row of various-sized dark brown spots extends from the apex to the anal angle; the fringe alternately dark brown and yellowish green: secondaries dark brown; the fringe yellowish green mixed with dark brown hairs. Underside: primaries dark brown, paler at the base; secondaries greyish, irrorated with dark brown scales to beyond the middle; a black spot at the end of the cell; the outer margin from the apex to the anal angle broadly dark brown; the fringes of both wings as above.

Expanse  $1\frac{3}{4}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Miselia ignepectus*, sp. n.

Head red; collar, tegulæ, and thorax dark reddish brown; abdomen above greyish brown, the sides and anus bright red, the underside pale brown; the legs clothed with red hairs. Primaries very dark brown, irrorated with grey scales; a rather wide olive-green band crosses the wing from the costal margin close to the base to the inner margin; a large olive-green spot at the end of the cell, and a submarginal, waved, olive-green line extending from the apex to the anal

angle; the fringe greyish brown: secondaries dark brown, palest at the base; the marginal line red; the fringe brown. Underside: primaries dark brown, the costal and outer margins broadly banded with red; a black line at the end of the cell, beyond which a very indistinct dark line crosses the wing from the costal to the inner margin: secondaries pale brown, thickly irrorated with red scales; a dark submarginal line crosses the wing from near the apex to the anal angle.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Miselia albitela*, sp. n.

Head, collar, tegulæ, and thorax yellowish brown; antennæ pale brown; abdomen greyish; anus yellowish brown; underside of abdomen and legs pale yellowish brown. Primaries dark reddish brown, yellowish brown at the base; a wide *S*-shaped mark at the end of the cell and a submarginal broken band of spots extending from the apex to near the anal angle, both yellowish brown; a marginal row of very indistinct grey spots extends from the apex to the costal margin; a white angular-shaped spot below the cell, not reaching the inner margin; the fringe pale yellowish brown: secondaries sordid white, the outer margins broadly dusky; the fringe yellowish. Underside: primaries dark blackish brown, the outer margin from the apex to the anal angle reddish; secondaries very similar to the upperside, but slightly reddish.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Miselia erythurus*, sp. n.

*Male*.—Head, antennæ, collar, tegulæ, thorax, and abdomen dark brown; the sides of the abdomen and anus reddish brown; legs dark brown. Primaries dark brown; a very indistinct spot in the cell and one beyond; a row of very minute black dots crosses the wing from the costal to the inner margin; a >-shaped yellow mark below the cell and a submarginal row of small yellow spots extending from the apex to the anal angle; the fringe dark brown: secondaries white, the apex and outer margin irrorated with brown scales, the fringe white. Underside: primaries brown; secondaries white.—*Female* very similar to the male, but with the secondaries dark brown, palest at the base.

Expanse, ♂  $1\frac{5}{10}$ , ♀  $1\frac{1}{2}$  inch.

*Hab.* N.E. Peru, Aqualani, 10,000 feet (*Ockenden, Mus. Druce*).

Allied to *Miselia imitata*, Mssn.

*Miselia melanoleuca*, sp. n.

*Male*.—Head white, antennæ black; collar white, edged with black; tegulæ white, edged with black; thorax and base of abdomen white; abdomen and underside of thorax black; legs spotted with white; anus greyish. Primaries white, costal margin spotted with black; three large black spots close to the apex; two elongated black spots at the anal angle and a large elongated black spot crossed by two narrow white lines extending from the base along the inner margin, the outer margin thinly irrorated with small black dots; the fringe black and white: secondaries white, the apex and part of the outer margin black. Underside of primaries black; secondaries white, with the costal margin broadly black.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Chabuata erythrias*, sp. n.

*Female*.—Head, collar, tegulæ, and thorax reddish brown; abdomen above dark brown, the sides and the underside and legs reddish brown. Primaries dark reddish brown; a grey spot at the end of the cell; the outer margin from the apex to the anal angle black, the marginal line pale brown; the fringe black: secondaries dark brown, palest at the base. Underside: primaries black, the costal and outer margins red: secondaries reddish brown, palest on the inner margin.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Hyssia ruficana*, sp. n.

*Male*.—Head, antennæ, collar, and tegulæ reddish fawn-colour; thorax grey; abdomen dark brown; anus and underside of abdomen and legs pale brown. Primaries reddish fawn-colour; a small grey spot close to the base; two large grey spots about the middle of the costal margin; two fine grey lines cross the wing from the grey spots to the inner margin; between the grey lines on the inner margin are two rather large black spots; the outer margin from the

apex to the anal angle broadly banded with grey, much waved on the inner side; the fringe grey: secondaries pale brown.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Hyssia melanopis*, sp. n.

*Male*.—Head, collar, tegulæ, thorax, and abdomen dark brown; antennæ dark reddish brown; underside of thorax and legs blackish brown. Primaries very dark brown, crossed by fine broken black lines; an indistinct black spot at the end of the cell, the outer margin from the apex to the anal angle pale brown; a submarginal black waved line crosses the wing from the costal margin near the apex to the inner margin; the fringe dark brown: secondaries cream-colour, darkest from the apex to the anal angle; the fringe yellowish white. The underside of both wings brown, the primaries the darkest.

Expanse  $1\frac{1}{3}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Hyssia stenorena*, sp. n.

Head, antennæ, collar, tegulæ, and thorax dark reddish brown; abdomen pale greyish brown above; the underside of thorax, legs, and abdomen dark blackish brown. Primaries dark reddish brown, the base green; a round green spot in the cell; a large greenish-white spot at the end of the cell, the inner margin pinkish brown almost from the base to the anal angle; a rather wide submarginal line edged with black extending from the apex to the anal angle olive-green; a marginal row of white dots; the fringe dark brown: secondaries dark brown, palest at the base; the marginal line green; the fringe brown. Underside: primaries black, the apex and outer margin red: secondaries greyish, thickly irrorated with brown scales; a black spot at the end of the cell and a very faint submarginal black line from the costal to the inner margin.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Hyssia olivescens*, sp. n.

*Male*.—Head, collar, tegulæ, and thorax olive-green; palpi

and antennæ black; abdomen brownish black; anus and underside of thorax olive-green; legs alternately brown and olive-green. Primaries olive-green; a zigzag black line crosses the wing near the base from the costal to the inner margin; a pale square-shaped spot in the cell and a rather large whitish spot edged with black at the end of the cell; a faint submarginal line with a few black spots about the middle extends from the apex to the anal angle; the fringe olive-green: secondaries brownish black; the fringe olive-green. Underside: primaries brownish black, the costal margin and a marginal row of small spots reddish brown: secondaries greenish grey thickly irrorated with dark brown scales; a dark marginal band extends from the apex to the middle of the outer margin.

Expanse  $1\frac{6}{10}$  inch.

*Hab.* Peru, Quinton, Carabaya, 5000 feet (*Ockenden, Mus. Druce*).

*Hyssia poliorhoda*, sp. n.

*Male*.—Head and thorax grey; antennæ, collar, and tegulæ reddish brown; abdomen dark grey; the underside and the legs reddish brown. Primaries dark reddish brown, thickly irrorated with silver-grey scales; a faint greyish spot at the end of the cell; a dark brown submarginal line extends from the apex to the anal angle; the fringe brown: secondaries white, the costal margin, apex, and part of the outer margin clouded with brown. Underside: primaries black, the costal margin from the base to the apex red: secondaries white, the costal margin irrorated with red scales.

Expanse  $1\frac{3}{10}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Eriopyga phæostigma*, sp. n.

*Male*.—Head, antennæ, collar, tegulæ, and thorax reddish brown; abdomen black, the anal tuft reddish brown; underside of the abdomen and thorax dark brown. Primaries reddish brown; a blackish-brown spot in the cell and a larger spot at the end of the cell, both edged with small black dots; the outer margin blackish brown; the marginal line pale brown; the fringe dark brown: secondaries dark blackish brown; the fringe pale brown. Underside brown; primaries darker than the secondaries.—*Female* similar to the male, but very much darker in colour and with the spot

at the end of the cell much paler in colour; the underside is also much darker than in the male.

Expanse, ♂  $1\frac{1}{4}$ , ♀  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Eriopyga metaleuca*, sp. n.

Head, collar, tegulæ, thorax, and abdomen pale greyish brown; antennæ brown. Primaries pale brown, thickly irrorated with greyish scales; two greyish spots in the cell; a reddish submarginal line crosses the wing from the apex to the inner margin near the anal angle; the fringe pale brown; secondaries white.

Expanse  $1\frac{1}{4}$  inch.

*Hab.* Peru, Quinton, Carabaya, 5000 feet (*Ockenden, Mus. Druce*).

*Eriopyga griseorufa*, sp. n.

*Male*.—Head, collar, tegulæ, thorax, and abdomen grey; antennæ and palpi reddish brown; underside of the abdomen and legs reddish grey. Primaries grey, shaded with reddish brown along the outer margin; two zigzag, fine, reddish-brown lines cross the wing from the costal to the inner margin, the first nearest the base, the second beyond the cell; a faint brown dot in the cell; the marginal line yellowish; the fringe grey; secondaries pale greyish, the apex and outer margin the darkest. Underside: both wings pinkish grey.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Meliana disticta*, sp. n.

*Male*.—Head, collar, tegulæ, thorax, abdomen, and legs pale brown. Primaries bright ochreous; a pale whitish line down the middle of the wing from the base to the outer margin; a black streak below the base of the cell; two small black dots at the end of the cell, several small whitish spots with black points close to the apex; the outer margin spotted with black from the apex to the anal angle; the fringe ochreous; secondaries white.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* Peru, Quinton, Carabaya, 5000 feet (*Ockenden, Mus. Druce*).

Subfam. *CUCULLIANÆ*.*Dascuplexia lichenifera*, sp. n.

*Male*.—Head and palpi green; antennæ black; collar green, with a black line; tegulæ and thorax grey, irrorated with green and brown hairs; abdomen grey, with three tufts of green hairs at the base; the legs grey, banded with green. Primaries grey, darkest at the apex and along the costal margin, also thickly irrorated with small black dots; two broken green bands cross the wing about the middle from the costal to the inner margin; the outer and inner margin and a line close to base of the wing pale green; the fringe grey: secondaries brownish white, darkest at the apex and round the outer margin; a black spot at the end of the cell; a submarginal row of brown dots extending from the apex to the anal angle; the fringe brown and grey. Underside of the primaries dark brown; the secondaries very similar to the upperside.—The *female* very similar to the male, but darker in colour.

Expanse, ♂  $1\frac{3}{10}$ , ♀  $1\frac{1}{2}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Rhizotype confluens*, sp. n.

*Male*.—Head, palpi, antennæ, collar, tegulæ, and thorax dark reddish brown; abdomen blackish brown, the anal tuft yellowish; underside of the abdomen and legs pale brown. Primaries dark reddish brown, the costal margin from the base to the end of the cell pale brown streaked with black; a large C-shaped spot at the end of the cell pale brown; the outer and inner margins pale brown; a dark brown spot at the anal angle; a pinkish-brown line crosses the wing from the apex nearly to the middle of the inner margin; the fringe alternately light and dark brown: secondaries dark brown. Underside: both wings pale brown, crossed by a black line beyond the middle.—The *female* similar to the male, but darker in colour.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet; Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

Subfam. *ACRONYCTINÆ*.*Cropia viridimicans*, sp. n.

Head, collar, tegulæ, thorax, and upperside of the abdo-



men greyish brown; antennæ brown; underside of abdomen and legs pale brown. Primaries green, crossed from the costal to the inner margin by fine brown and black lines; a wide white band crosses the middle of the wing from the costal to the inner margin, the band is slightly clouded with brown at the sides and at the end of the cell; the marginal line black; the fringe dark brown: secondaries reddish brown; a black-and-white dot at the anal angle and a marginal row of small black-and-white dots extending from the apex to the anal angle. Underside: both wings reddish brown.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* Ecuador, Sarayacu (*Buckley, Mus. Druce*).

*Perigea pyrostickta*, sp. n.

*Male*.—Head, antennæ, collar, tegulæ, and thorax golden brown; abdomen and legs black. Primaries dark brown, shaded with golden brown at the base, along the costal margin, and at the apex; two golden-brown spots in the cell and a small tuft of white scales at the end of the cell; the fringe dark brown: secondaries black. Underside of both wings dark glossy brown, the secondaries irrorated with grey scales at the base.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Perigea rubrifusa*, sp. n.

Head, antennæ, collar, tegulæ, and thorax reddish brown; abdomen dull brown; legs red and brown. Primaries dark reddish brown, the costal margin spotted with darker brown; a light spot at the end of the cell; a waved submarginal line extends from the apex to the anal angle; the outer margin spotted with black; the fringe reddish brown: secondaries brown; the fringe reddish.

Expanse  $1\frac{3}{10}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Perigea purpurea*, sp. n.

*Male*.—Head, collar, tegulæ, and thorax purple-brown; antennæ dark brown; abdomen pale brown; underside of thorax and legs purple-brown. Primaries purple-brown, streaked with white on the costal margin; several small

white spots at the end of the cell; beyond the cell a series of black streaks; a submarginal row of black dots with white points extends from the apex to the anal angle; the fringe purple-brown: secondaries pale brownish white, shaded with pink round the outer margin.—*Female* similar to male, the secondaries much darker.

Expanse, ♂  $1\frac{1}{2}$ , ♀  $1\frac{3}{4}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Macapta holophæa*, sp. n.

*Male*.—Head, palpi, antennæ, collar, tegulæ, thorax, and abdomen greyish brown; legs brown. Primaries pale brown, thickly irrorated with grey and black scales; a submarginal row of small black dots extends from the apex to the inner margin; the fringe dark brown: secondaries similar in colour to primaries, but paler at the base; the fringe paler brown. Underside similar to the upperside, but slightly more red in shade.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden*); Huancabamba, 6000–10,000 feet (*Boettger, Mus. Druce*).

*Gonodes albifissa*, sp. n.

Head, palpi, collar, tegulæ, and thorax grey; antennæ black; abdomen above blackish, the underside and legs grey. Primaries: the costal half grey, the inner half fawn-colour; a fine black curved line extends from the inner margin near the base to the end of the cell; the wing near the apex dark grey; the marginal line black; the fringe pale brownish grey: secondaries grey, palest at the base; a dark streak at the end of the cell; the fringe brownish white. Underside: primaries black, with a spot in the cell and the costal and outer margins all grey: secondaries yellowish white, a black spot at the end of the cell, beyond which a row of small black dots crosses the wing from the costal to the inner margin; the fringe yellowish white; the outer margin of both wings spotted with black.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Monodes hemipolia*, sp. n.

*Male*.—Head, palpi, collar, tegulæ, and thorax pale brownish grey; antennæ black; abdomen above black, the underside and legs grey, the anal tuft yellowish brown. Primaries: the basal half grey, irrorated with reddish-brown scales; a black spot at the end of the cell; a reddish-brown band from the end of the cell to the inner margin; the apex and outer margin dark grey; the fringe brown: secondaries uniformly dark brown; the underside of both wings greyish brown, indistinctly marked with black lines.

Expanse 1 inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Monodes leucostigma*, sp. n.

*Male*.—Head, antennæ, collar, tegulæ, thorax, and abdomen brown, tegulæ tipped with white. Primaries dark brown; a large black spot close to the base; a white dot at the end of the cell; a greyish-white line crosses the wing from the apex to the inner margin; the outer margin and fringe reddish brown: secondaries dull greyish brown; a dark line at the end of the cell. The underside of both wings pale brown.

Expanse  $\frac{3}{4}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Monodes semirufa*, sp. n.

*Male*.—Head and antennæ black; collar, tegulæ, thorax, and legs brown; abdomen black. Primaries: the basal half of the wing reddish brown; beyond the cell a white line crosses the wing from the costal to the inner margin; beyond the white line the wing is dark brown, thickly irrorated with greyish-white scales; a marginal row of very small reddish-brown spots extends from the apex to the anal angle; the fringe dark brown: secondaries greyish brown. Underside of both wings pale brown.

Expanse 1 inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Monodes chionopis*, sp. n.

*Male*.—Head, collar, tegulæ, and thorax pale fawn-colour, thickly irrorated with black scales; antennæ and abdomen black, the anal tuft pale brown; legs blackish. Primaries pale fawn-colour, irrorated with black scales; the base of the

wing black; a large black spot close to the apex and some black lines on the costal margin; a round white dot in the middle of the cell; the marginal line black; the fringe brown: secondaries greyish white, darkest at the apex and round the outer margin. Underside: primaries black, the outer margin from the apex to the anal angle brown: secondaries white, the apex black; a faint brown line crosses the wing below the middle.

Expanse 1 inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Calymniodes obconica*, sp. n.

*Male*.—Head, antennæ, palpi, collar, tegulæ, thorax, and legs reddish brown; abdomen black. Primaries dark reddish brown, marked very similar to *Calymniodes leucographa*, Hmps., but instead of being white round the large central reddish-brown patch it is greyish blue; a submarginal row of black spots crosses the wing from the costal to the inner margin near the anal angle; the fringe reddish brown: secondaries white, broadly black at the apex and partly round the outer margin; the fringe partly black and white. Underside: primaries black, the costal and outer margins reddish brown: secondaries white, with black spot at the end of the cell; the costal margin and apex irrorated with reddish-brown scales.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

This species is allied to *Calymniodes leucographa*, Hmps., and *Calymniodes promentona*, Dogn.

*Calymniodes rhodopis*, sp. n.

*Male*.—Head, antennæ, palpi, collar, tegulæ, and thorax dark brown, the base of the collar white; abdomen black above, the underside and legs blackish brown. Primaries brown, irrorated with black scales; three white zigzag lines cross the wing from the costal to the inner margin, the first close to the base, the second about the middle of the cell, and the third considerably beyond the cell; a round reddish-brown spot edged with black at the end of the cell; an indistinct submarginal pale brown line extends from the apex to the inner margin; a marginal row of white dots; the fringe brown: secondaries white, the costal margin, apex, and outer margin clouded with brown; a black spot at the

end of the cell. The underside greyish brown, irrorated with dark brown.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Aqualani, 10,000 feet (*Ockenden, Mus. Druce*).

*Calymniodes turcica*, sp. n.

*Male.*—Head, antennæ, palpi, collar, thorax, and abdomen reddish brown, collar edged with light brown. Primaries brown, streaked with black at the base and along the costal margin; the cell and a rather large square-shaped spot beyond dark brown; a white dot with a white line under it in the cell; five small white dots at the end of the cell; the outer margin paler brown, with a greyish-brown spot above the anal angle; the marginal line black; the fringe dark brown: secondaries dark brown, with a darker brown spot at the end of the cell; the fringe dark brown. The underside pale brown, the costal margin of the primaries reddish.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Calymniodes albiorbis*, sp. n.

*Male.*—Head, antennæ, palpi, collar, tegulæ, thorax, and abdomen dark brown; legs black and brown. Primaries dark brown, crossed about the middle by a wide pale brown band edged on each side with a wavy black line; a white spot in the cell and two white lines at the end of the cell; the costal margin streaked with greyish-brown lines; a sub-marginal pale brown line extends from the apex to the anal angle; the fringe dark brown: secondaries greyish white, clouded with brown at the apex and round the outer margin.

Expanse 1 inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Chytonix chlorophila*, sp. n.

*Male.*—Head, palpi, collar, tegulæ, thorax, and abdomen pale green; antennæ, underside of thorax, and abdomen brown; legs brown, banded with black. Primaries pale green, the costal margin spotted with brown and white; a large V-shaped brown mark about the middle of the costal margin; a brown spot about the middle of the outer margin and one at the anal angle; a wavy white line crosses the wing from the costal margin to the anal angle; the outer

margin spotted with black; the fringe brown: secondaries blackish brown, the fringe green. Underside pale brown.

Expanse  $1\frac{1}{4}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Leucosigma uncifera*, sp. n.

*Male*.—Head, collar, tegulæ, and thorax pinkish brown; abdomen and legs brown, the anal tuft reddish; antennæ dark brown. Primaries reddish brown, irrorated with white scales; a large white mark at the end of the cell and two white waved lines cross the wing from the costal to the inner margin, the first line at the end of the cell, the second beyond, edged with black on the inner side; the outer margin spotted with white; the fringe brown: secondaries greyish white, clouded with brown at the apex. Underside pinkish white.

Expanse 1 inch.

*Hab.* Peru, La Oroya, Carabaya, 3000 feet (*Ockenden, Mus. Druce*).

*Neocalymnia obconica*, sp. n.

*Male*.—Head, antennæ, palpi, collar, tegulæ, thorax, abdomen, and legs brown. Primaries brown, crossed by two faint brown lines, the first near the base, the second beyond the cell; a large reddish-brown patch on the costal margin near the apex; the fringe dark brown: secondaries blackish brown. Underside: primaries and secondaries dark blackish brown, the costal margin of primaries pale brown.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

*Delta albiclava*, sp. n.

*Male*.—Head, antennæ, palpi, collar, tegulæ, thorax, and abdomen fawn-colour. Primaries fawn-colour, streaked with darker brown; a dark brown mark at the end of the cell; a black line below the cell extending from the base almost to the outer margin; a silvery-white streak below the black line; the veins black: secondaries fawn-colour, palest at the base; the fringe brown. Underside: both wings pale brown.

Expanse  $1\frac{1}{2}$  inch.

*Hab.* N. Peru, Huancabamba, 6000–10,000 feet (*Mus. Druce*).

*Acroriodes diplolopha*, sp. n.

*Male*.—Head, palpi, and antennæ dark reddish brown; collar and tegulæ greyish brown; thorax, abdomen, and legs greyish. Primaries dark brown, shading to light reddish brown on the inner half of the wing; a large brown spot edged with white at the end of the cell; the costal margin streaked with black; a pale greyish band extends from the apex to the anal angle; the marginal line black; the fringe alternately light and dark brown: secondaries cream-colour, broadly bordered with black; the fringe pale brown. Under-side: primaries blackish brown; secondaries similar to the upperside.

Expanse  $1\frac{3}{4}$  inch.

*Hab.* Peru, Oconeque, Carabaya, 7000 feet (*Ockenden, Mus. Druce*).

*Eriopus leucotoma*, sp. n.

*Male*.—Head, antennæ, palpi, collar, tegulæ, and thorax dark reddish brown; abdomen blackish brown; legs reddish brown. Primaries reddish brown; a darker brown line crosses the wing about the middle from the costal to the inner margin; a large dark brown spot at the end of the cell; three fine white lines cross the wing from the costal to the inner margin; the marginal line black, edged with white on the inner side; the fringe reddish brown: secondaries blackish brown; the fringe reddish brown. Underside: primaries brown, reddish along the costal margin: secondaries reddish brown; a submarginal line of small black dots extending from the apex to the anal angle.

Expanse  $1\frac{1}{4}$  inch.

*Hab.* S.E. Peru, Santo Domingo, 6000 feet (*Ockenden, Mus. Druce*).

Allied to *Eriopus floridensis*, Guen.

XLVII.—*A List of Mammals collected by Mr. C. F. M. Swynnerton in Northern Gazaland (Portuguese East Africa) and the Melsetter District of Rhodesia.* By R. C. WROUGHTON.

THE Chirinda Forest, in or near which Mr. Swynnerton largely made his collection, is an isolated patch of forest of quite small extent situated in the Melsetter District of